

01.0001	DO ATION OF OUR YEAT MATTER		
A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER H05K13/04 H05K13/08		
According to	o International Patent Classification (IPC) or to both national classificati	ion and IPC	
B. FIELDS	SEARCHED		
	ocumentation searched (classification system followed by classification	n symbols)	
IPC 7	H05K		
Documentat	tion searched other than minimum documentation to the extent that suc	ch documents are included in the fields sea	uched
Electronic d	lata base consulted during the international search (name of data base	e and, where practical, search terms used)	
EPO-In	ternal, WPI Data, PAJ		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relev	vant passages	Relevant to dalm No.
Х	JP 01 241680 A (MATSUSHITA ELECTRI LTD) 26 September 1989 (1989-09-20 abstract		1,3,4,6,
х	US 6 195 454 B1 (YAZAWA) 27 February 2001 (2001-02-27) column 6, line 27 -column 6, line figures 1,3B	44;	1,6
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A	abstract		7
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Furt	ther documents are listed in the continuation of box C.	Patent family members are listed it	n annex.
'A' docum	alegories of cited documents: nent defining the general state of the art which is not idered to be of particular relevance	*T* later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention	the application but
	document but published on or after the international	"X" document of particular relevance; the o	laimed invention
filing of the filling	date nent which may throw doubts on priority claim(s) or	cannot be considered novel or cannot involve an inventive step when the do	t be considered to
	h is cited to establish the publication date of another on or other special reason (as specified)	"Y" document of particular relevance; the c cannot be considered to involve an in	laimed invention ventive step when the
	nent referring to an oral disclosure, use, exhibition or means	document is combined with one or mo ments, such combination being obvior	ore other such docu-
*P* docum	nent published prior to the international filing date but	in the art.  *&" document member of the same patent	•
Date of the	e actual completion of the international search	Date of mailing of the international sea	rch report
]	15 April 2004	26/04/2004	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Bolder, G	



PCT/YB2	004/050004

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